

PROJECT NUMBER: 1333
PROJECT TITLE: Semiworks Process Control
PROJECT LEADER: D. A. Phan
PERIOD COVERED: September, 1988

- A. Objective: Evaluate and revise the process control and data acquisition system to improve processing performance and production quality.

B. Results:

Hauni HT Steam Tunnel Installation (Oliver) - Installation of the Hauni HT steam tunnel before the Adt dryer at the Semiworks was completed and system checkout was done the week of 9/19. An initial test with standard factory Marlboro filler was performed on 9/29 by Dr. Cho. Several conditions were tested with different spray steam pressures and the dryer being operated in co-current and counter-current air flow. Other punch-list items will be completed by the end of October.

Temperature Control System for Scandia Overwrappers (Osmalov/Phan/Sims) - Work is underway to provide all necessary electrical and mechanical modifications for evaluation on one of the Scandia overwrappers at the Stockton St. plant per factory request. System startup is planned on 10/8.

Second Aftercut Flavor Cylinder (Phan/Sims) - Most of the instruments have been received. The Provox configurations were revised and the aftercut control panel was rewired to accommodate the connections of the second aftercut system. The Fenwal fire and explosion suppression system for the cylinder is scheduled to be installed by 10/30. Electrical and control installation is planned to begin the week of 10/31 and completed by 11/11. This flavor cylinder should be on-line by 11/15.

Final Product Automatic Reject System (Oliver/Sims/Medek) - The final product rejection system was installed and checked out successfully. This system automatically rejects final product based on the corrected QB2 moisture readings at the final weighbelt. The allowable moisture tolerance band can be adjusted and the system can be bypassed from the primary control room.

On-line Moisture Measurement (Phan) - A purchase order was issued for an on-line MM55 moisture analyzer from Infrared Engineering for evaluation in the Semiworks primary. This meter is scheduled to be installed by 11/30 at the final weighbelt.

- C. Plans - Complete the checkout of the Scandia temperature control system for the Stockton St. plant and installation of the Fenwal fire and explosion system for the second aftercut cylinder. Continue providing support to the Hauni HT steam tunnel evaluation program, development of the Onspec control software and qualification of the Computrac moisture analyzers. Continue providing electrical plant engineering support to the Semiworks and conduct routine QA functions.